

STATENS SERUMINSTITUT

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June 4 ,1953.

Dr. J. Lederberg
Department of Genetics
University of Wisconsin
Madison 6, Wisconsin
U.S.A.

Nr.

Dear Dr. Lederberg:

Thank you very much for your letter of May 11th and the strains which arrived on May 29th.

Before I received this package I have done during the last month some transductions with my own strains and could confirm your results. It was very easy to get a motile form with b antigen or with i antigen from my S. paratyphi B O form (248) in repeated tests.

It was further possible to get from a strain of S. paratyphi A var. durazzo (Nr. 340) which contains the XII₂ antigen a strain which has the I antigen and the i antigen.

I am sending 2 strains of S. paratyphi A var. durazzo = Nr. 339 and 340 to you. The formula is II, XII₁, XII₂, XIV₃: a :-.

The "Gallinarum" strain 151-52 is from me. I received it from Dr. Floyd, Cairo and diagnosed it as a biochemically atypical strain of S. gallinarum-pullorum. I do not know whether the culture 3821-51 from Edwards is identical with my strain 151-52, but I had sent my strain to Edwards.

The results with your 4 cultures are the following:

SW 944 = S. paratyphi B with b antigen. The strain has the I antigen. I had found the same that my original culture Nr. 248 contains the I antigen = I, IV, V, XII.

SW 948 = O form of S. paratyphi A, with I antigen, I could not find the XII₂ antigen. I +

SW 1047 = S. paratyphi A with b antigen, and with I antigen. As I already told you also my strain (Nr. 340) of S. paratyphi A var. durazzo aquired the I antigen. after transduction with S. typhi murium (I, IV, V, XII). I + (from 340 I +)

SW 1048 = O form of S. paratyphi A var. durazzo, without the I antigen and without the XII₂ antigen. I shall not work with your culture SW 944 as I have my own strains which give good transductions. (I +)

From Dr. Stocker I received the manuscript of the paper with you and Zinder and have read it with great interest.

With kind regards
yours sincerely

F. Kauffmann

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